

1	M	S	C	Q	Q	N	Q	Q	Q	C	Q	P	P	P	K	C	-	-	-	-	-	-	-	-	-	-	P	S	P	K	C	P	2024646
1	M	S	C	Q	Q	S	Q	Q	Q	C	Q	P	P	P	P	K	C	T	P	K	C	P	P	P	P	P	T	P	K	C	P	3431776	
1	M	S	C	Q	Q	N	Q	Q	Q	C	Q	P	P	P	P	K	C	P	P	K	C	P	P	P	P	-	P	K	C	P	1798487		
1	M	S	C	Q	Q	N	Q	Q	Q	C	Q	P	P	P	P	K	C	P	P	K	C	P	P	P	P	-	P	K	C	P	GI 2589188		
23	P	K	S	P	V	Q	C	L	P	P	A	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2024646	
31	P	K	C	P	P	K	C	P	P	V	S	S	C	C	S	V	S	S	G	G	C	C	G	S	S	S	S	S	G	G	S	C	3431776
30	P	K	C	P	P	Q	C	P	A	P	-	-	-	-	C	F	P	A	V	S	S	C	C	G	P	S	S	S	G	S	C	C	1798487
30	P	K	C	L	P	Q	C	P	A	P	-	-	-	-	C	S	P	A	V	S	S	C	C	G	P	I	S	G	G	C	C	GI 2589188	
38	A	P	S	S	G	V	C	G	P	S	S	E	G	G	C	C	F	L	N	H	H	R	R	H	-	-	H	R	C	R	R	2024646	
61	G	S	S	S	G	C	C	C	S	S	G	G	G	G	C	C	L	S	H	H	R	R	R	R	S	R	S	H	C	H	R	P	3431776
57	G	P	S	S	G	C	C	C	S	S	G	A	G	G	C	S	L	S	H	H	R	P	R	L	F	H	R	R	R	H	1798487		
57	G	P	S	S	G	C	C	C	N	S	G	A	G	G	C	C	L	S	H	H	R	P	R	L	F	H	R	R	R	H	GI 2589188		
66	Q	R	P	N	S	C	D	R	G	S	G	Q	Q	G	G	S	G	C	C	-	-	-	-	-	-	-	H	G	S	G	G	2024646	
91	Q	S	S	G	C	C	-	-	-	-	S	Q	P	S	G	S	S	C	C	G	G	S	G	S	G	Q	H	S	G	G	3431776		
87	Q	S	P	D	C	C	E	-	-	-	S	E	P	S	G	S	G	C	C	-	-	-	-	-	-	H	S	S	G	G	1798487		
87	Q	S	P	D	C	C	E	-	-	-	S	E	P	S	G	S	G	C	C	-	-	-	-	-	-	H	S	S	G	G	GI 2589188		
91	C	C																													2024646		
117	C	C																													3431776		
109	C	C																													1798487		
109	C	C																													GI 2589188		

FIGURE 1

1	M	T	G	S	C	C	G	S	T	L	S	S	L	S	Y	G	G	G	C	C	Q	P	C	C	C	R	Y	P	C	C		1448744
1	-	T	G	S	C	C	G	P	T	F	S	S	L	S	C	G	G	G	C	L	Q	P	R	Y	R	D	P	C	C		GI 71384	
31	C	R	P	V	T	C	Q	T	T	V	C	R	P	V	T	C	V	P	R	C	T	R	P	I	C	E	P	C	C	R		1448744
30	C	R	P	V	S	C	Q	T	-	V	S	R	P	V	T	F	V	P	R	C	T	R	P	I	C	E	P	C	R		GI 71384	
61	P	V	C	C	D	P	C	S	L	Q	E	G	C	C	R	P	I	T	C	C	P	S	S	C	T	A	V	V	C	R		1448744
59	P	V	C	C	D	P	C	S	L	Q	E	G	C	C	R	P	I	T	C	C	P	T	S	C	Q	A	V	V	C	R		GI 71384
91	P	C	C	W	A	T	T	C	C	Q	P	V	S	V	Q	S	P	C	C	R	P	P	C	G	Q	P	T	P	C	S		1448744
89	P	C	C	W	A	T	T	C	C	Q	P	V	S	V	Q	C	P	C	C	R	P	T	S	C	Q	P	A	P	C	S		GI 71384
121	-	T	T	C	R	T	-	-	-	-	S	S	C																			1448744
119	R	T	T	C	R	T	F	R	T	S	P	C	C																			GI 71384

FIGURE 2

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1	M	N	N	P	I	P	S	N	L	K	S	E	A	K	K	A	K	I	L	R	E	F	T	E	I	T	S	R	N	2737275	
1	M	N	N	P	I	P	S	N	L	K	S	E	A	K	K	A	K	I	L	R	E	F	T	E	I	T	S	R	N	GI 1944389	
31	G	P	D	K	I	I	P	A	H	V	I	A	K	A	K	G	L	A	I	L	S	V	I	K	A	G	F	L	V	T	2737275
31	G	P	D	K	I	I	P	A	H	V	I	A	K	A	K	G	L	A	V	L	S	V	I	K	A	G	F	L	V	T	GI 1944389
61	A	R	G	G	S	G	I	V	A	R	L	P	D	G	K	W	S	A	P	S	A	I	G	I	A	G	L	G	G	2737275	
61	A	R	G	G	S	G	I	V	L	A	R	L	P	D	G	K	W	S	A	P	S	A	I	G	I	A	G	L	G	G	GI 1944389
91	G	F	E	I	G	I	E	V	S	D	L	V	I	I	L	N	Y	D	R	A	V	E	A	F	A	K	G	G	N	L	2737275
91	G	F	E	I	G	I	E	V	S	D	L	V	I	I	L	N	Y	D	R	A	V	E	A	F	A	K	G	G	N	L	GI 1944389
121	T	L	G	G	N	L	T	V	A	V	G	P	L	G	R	N	L	E	G	N	V	A	L	R	S	S	A	A	V	F	2737275
121	T	L	G	G	N	F	T	V	A	V	G	P	L	G	R	N	L	E	G	N	V	S	L	R	S	S	A	A	V	F	GI 1944389
151	T	Y	C	K	S	R	G	L	F	A	G	V	S	L	E	G	S	C	L	I	E	R	K	E	T	N	R	K	F	Y	2737275
151	T	Y	C	K	S	R	G	L	F	A	G	I	S	L	E	G	S	C	L	I	E	R	K	E	T	N	R	K	F	Y	GI 1944389
181	C	Q	D	I	R	A	Y	D	I	L	F	G	D	T	P	R	P	A	Q	A	E	D	L	Y	E	I	L	D	S	F	2737275
181	C	Q	D	I	R	A	Y	D	I	L	F	G	D	V	P	Q	P	A	Q	A	E	D	L	Y	E	I	L	N	S	F	GI 1944389
211	T	E	K	Y	E	N	E	G	Q	R	I	N	A	R	K	A	A	R	E	Q	R	K	S	S	A	K	E	L	P	P	2737275
211	T	E	K	Y	E	T	E	G	Q	R	I	N	L	K	K	V	A	R	E	Q	R	K	-	-	A	K	E	L	P	P	GI 1944389

FIGURE 3A

241	K P L S R P Q Q S S A P V Q L N S G S Q S N R N E Y K L Y P	2737275
239	K P S S R P Q P A H P P V Q L N A G S Q G N R N E Y K L Y P	GI 1944389
271	G L S S Y H E R V G N L N Q P I E V T A L Y S F E G Q Q P G	2737275
269	E L S S Y H E K T G N L N Q P I E V T A L Y S F E G Q Q P G	GI 1944389
301	D L N F Q A G D R I T V I S K T D S H F D W W E G K L R G Q	2737275
299	D L N F Q A G D R I I V I S K T D S N F D W W E G K L R G Q	GI 1944389
331	T G I F P A N Y V T M N	2737275
329	T G I F P A N Y V T M N	GI 1944389

FIGURE 3B

1	M	G	S	S	R	A	P	W	M	G	R	V	G	G	H	G	M	L	A	L	L	A	G	L	L	P	G	T		3325323		
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	L	A	L	L	A	G	L	L	P	G	T		GI 414810		
31	L	A	K	S	I	G	T	F	S	D	P	C	K	D	P	T	R	I	T	S	P	N	D	P	C	L	T	G	K	G	3325323	
15	L	A	K	S	I	G	T	F	S	D	P	C	K	D	P	T	R	I	T	S	P	N	D	P	C	L	T	G	K	G	GI 414810	
61	D	S	S	G	F	S	S	Y	S	G	S	S	S	S	S	S	I	S	S	A	R	S	S	G	G	S	S	S	G	3325323		
45	D	S	S	G	F	S	S	Y	S	G	S	S	S	S	S	S	I	S	S	A	R	S	S	G	G	S	S	S	G	GI 414810		
91	S	S	S	G	S	S	I	A	Q	G	G	S	A	G	S	F	K	P	G	T	G	Y	S	Q	V	S	Y	S	S	G	3325323	
75	S	S	S	G	S	S	I	A	Q	G	G	S	A	G	S	F	K	P	G	T	G	Y	S	Q	V	S	Y	S	S	G	GI 414810	
121	S	G	S	S	L	Q	G	A	S	G	S	S	Q	L	G	S	S	S	S	H	S	G	S	S	G	S	H	S	G	S	3325323	
105	S	G	S	S	L	Q	G	A	S	G	S	S	Q	L	G	S	S	S	S	H	S	G	S	S	G	S	H	S	G	S	GI 414810	
151	S	S	S	H	S	S	S	S	S	S	S	F	Q	F	S	S	S	S	F	Q	V	G	N	G	S	A	L	P	T	N	D	3325323
135	S	S	S	H	S	S	S	S	S	S	S	F	Q	F	S	S	S	S	F	Q	V	G	N	G	S	A	L	P	T	N	D	GI 414810
181	N	S	Y	R	G	I	L	N	P	S	Q	P	G	Q	S	S	S	S	S	Q	T	F	G	V	S	S	S	G	Q	S	3325323	
165	N	S	Y	R	G	I	L	N	P	S	Q	P	G	Q	S	S	S	S	S	Q	T	S	G	V	S	S	S	G	Q	S	GI 414810	
211	V	S	S	N	Q	R	P	C	S	S	D	I	P	D	S	P	C	S	G	G	P	I	V	S	H	S	G	P	Y	I	3325323	
195	V	S	S	N	Q	R	P	C	S	S	D	I	P	D	S	P	C	S	G	G	P	I	V	S	H	S	G	P	Y	I	GI 414810	

FIGURE 4A

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241	P S S H S V S G G Q R P V V V V D Q H G S G A P G V V Q G	3325323
225	P S S H S V S G G Q R P V V V V D Q H G S G A P G V V Q G	GI 414810
271	P P C S N G G L P G K P C P P I T S V D K S Y G G Y E V V G	3325323
255	P P C S N G G L P G K P C P P I T S V D K S Y G G Y E V V G	GI 414810
301	G S S D S Y L V P G M T Y S K G K I Y P V G Y F T K E N P V	3325323
285	G S S D S Y L V P G M T Y S K G K I Y P V G Y F T K E N P V	GI 414810
331	K G S P G V P S F A A G P P I S E G K Y F S S N P I I P S Q	3325323
315	K G S P G V P S F A A G P P I S E G K Y F S S N P I I P S Q	GI 414810
361	S A A S S A I A F Q P V G T G G V Q L C G G G S T G S K G P	3325323
345	S A A S S A I A F Q P V G T G G V Q L C G G G S T G S K G P	GI 414810
391	C S P S S S R V P S S S S I S S S S G L P Y H P C G S A S Q	3325323
375	C S P S S S R V P S S S S I S S S S G S P Y H P C G S A S Q	GI 414810
421	S P C S P P G T G S F S S S S S S S S S Q S S G K I I L Q P C G S	3325323
405	S P C S P P G T G S F S S S S S S S S S Q S S G K I I L Q P C G S	GI 414810
451	K S S S S G H P C M S V S S S L T L T G G P D G S P H P D P S	3325323
435	K S S S S G H P C M S V S S S L T L T G G P D G S P H P D P S	GI 414810

FIGURE 4B

481	A	G	A	K	P	C	G	S	S	A	G	K	I	P	C	R	S	I	R	D	I	L	A	Q	V	K	P	L	G	3325323	
465	A	G	A	K	P	C	G	S	S	A	G	K	I	P	C	R	S	I	R	-	-	-	-	-	-	-	-	-	-	-	GI 414810
511	P	Q	L	A	D	P	E	V	F	L	P	Q	G	E	L	L	D	S	P	3325323											GI 414810
485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

FIGURE 4C